

AD-A168 228

INSTALLATION RESTORATION PROGRAM PHASE II
CONFIRMATION/QUANTIFICATION STA. (U) WESTON (ROY F) INC
WEST CHESTER PA A L DUNN ET AL. 28 JUN 85

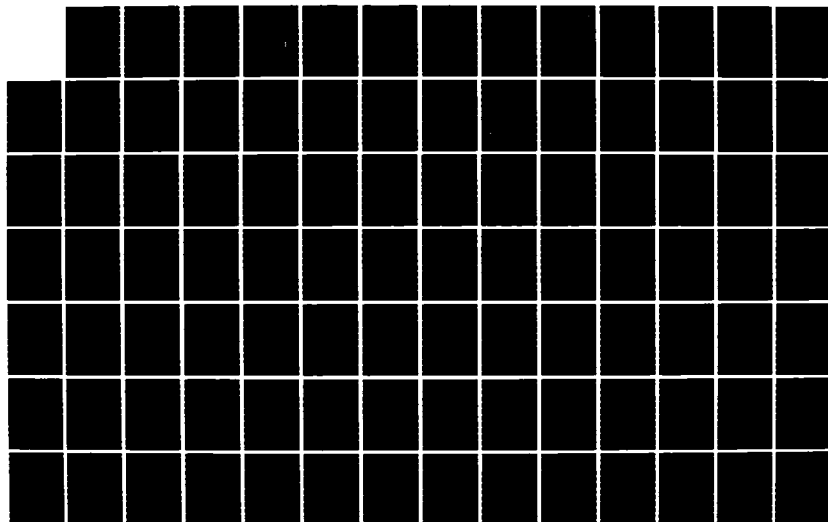
1/2

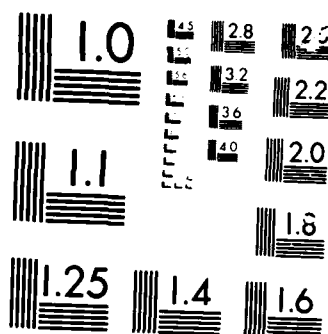
UNCLASSIFIED

F33615-84-D-4400

F/G 13/2

NL





MICROSCOPE

AD-A168 228

AD-A168 228
AD-A168 228
AD-A168 228
AD-A168 228

AD-A168 228

SELECTED
AD-A168 228

AD-A168 228

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

REPORT DOCUMENTATION PAGE

AD-A168318

1. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS None	
2. SECURITY CLASSIFICATION AUTHORITY N/A		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for Public Release, Distribution Unlimited	
3. SECURITY CLASSIFICATION DOWNGRADING SCHEDULE N/A		5. MONITORING ORGANIZATION REPORT NUMBER(S) N/A	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) N/A		7a. NAME OF MONITORING ORGANIZATION USAF Occupational and Environmental Health Laboratory	
6. NAME OF PERFORMING ORGANIZATION W. F. Weston, Inc.		7b. ADDRESS (City, State and ZIP Code) Brooks AFB, Tx. 78235-5501	
8. ADDRESS (City, State and ZIP Code) The Weston Way West Chester, Pa. 19380		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F33615-84-D-4400	
10. NAME OF FUNDING/SPONSORING ORGANIZATION AFMITE		11. OFFICE SYMBOL (If applicable) TS	
12. ADDRESS (City, State and ZIP Code) Brooks AFB, Tx. 78235-5501		13. SOURCE OF FUNDING NOS. PROGRAM ELEMENT NO. PROJECT NO. TASK NO. WORK UNIT NO.	
14. TITLE (Include Security Classification) IRP Phase II, Stage I, Problem Confirmation Study, Castle AFB, Ca.			
15. PERSONAL AUTHOR(S) Wilson L. Dunn, D.L. Jones, Katherine A. Sheedy			
16. TYPE OF REPORT Technical		17. TIME COVERED FROM 84-10 TO 85-04	
18. DATE OF REPORT (Yr., Mo., Day) 85-06-28		19. SUPPLEMENTARY NOTATION	
20. COSATI CODES FIELD GROUP SUB GR		21. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
22. ABSTRACT (Continue on reverse if necessary and identify by block number) A problem confirmation study was performed at Castle AFB and included 21 potential contamination source sites identified in the Phase I Report as requiring field investigation. The potential source sites were grouped into 16 investigation sites including the area of a suspected plume of PCB contamination in groundwater. The field investigations, conducted from October 1984 to April 1985 included installation of 27 new monitor wells and 11 shallow augers, collection of sediment samples from surface soil, shallow borings, and drainage ditches, geophysical surveys of three sites, two rounds of surface and groundwater sampling at water level measurements, and pilot test operations on a Base production well. Analytes tested included volatile organic compounds, TOC, TOX, oil and grease, as well as phenols, nitrate, herbicides and pesticides at selected sites. Of the sixteen sites investigated, three were recommended for further groundwater study, either through continued monitoring at existing wells, or through expansion of the monitoring network. The TOC plume in the groundwater was delineated and recommended for immediate (con't. on back)			
23. DISTRIBUTION STATEMENT OF ABSTRACT UNCLASSIFIED UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS <input type="checkbox"/>		24. ABSTRACT SECURITY CLASSIFICATION Unclassified	
25. NAME OF RESPONSIBLE INDIVIDUAL W. F. Weston, Inc., WFA		26. TELEPHONE NUMBER (Include Area Code) (512) 526-2158	
27. OFFICE SYMBOL TS			

DTIC
SELECTED
MAY 29 1986

(cont.)

feasibility study; additional investigation to locate the source of the plume and to define its extent in off-Base areas and in an underlying aquifer have also been recommended.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
To: _____										From: _____										Date: _____										By: _____																																																																					
Subject: _____										Reference: _____										Distribution: _____										Remarks: _____																																																																					
H-1																																																																																																			



APPENDIX H

FIELD SAMPLE LOG SHEETS

LOG SHEETS

FIRST ROUND WATER SAMPLING

22 JANUARY - 1 FEBRUARY AND 4 MARCH 1985



PRODUCTION WELL

Site Castle AFBSamplers M. J. MichaelsField # CAFB # GP850196Sample I.D. New P.W.Date 3-4-85 Time 1430

STATIC _____

TOTAL WELL DEPTH _____ FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.
X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

OPERATING ☒ _____

WATER LEVEL _____ FT.

PUMPING RATE _____ G.P.M.

TOTAL GALLONS PUMPED _____ G.

SAMPLES TAKEN:

EPA 601
EPA 602
O & G
TOC
TOX
Phenolics

23 °C (Immediate)

362 Conductivity (umhos)

7.25 pH

23 °C (at pH Cond. Readings)

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

_____ pH

SAMPLES TAKEN:

WESTON

CASTLE AFB

WELL I.D. PW-1

DATE JAN 22 85

TIME 2:59:30

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 273 FT.

PUMPING RATE _____ G.P.M.

S.W.L. approx 38 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 235, $\phi 14$ FT.

ANALYTES

VOA inc. MEK

Oil and Grease

TOC

TOX

Phenolics

WATER VOLUME 1,879 G.

X3= 5,638 G.

FLOW RATE ~500 gpm G.P

PUMPING TIME REQUIRED 10 MIN

ACTUAL PUMPING TIME 20 MIN

18.4 °C

230 CONDUCTIVITY (μ hos)

7.78 pH

DUPLICATE
LABELED
PW-10A

NOTES: X = NOT APPLICABLE

SAMPLER AW/ JDB

WESTON

CASTLE AFB

WELL I.D. PW-2

DATE 22 JAN 85

TIME 0845

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 320 FT.

PUMPING RATE _____ G.P.M.

S.W.L. approx 38 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 282, $\phi 14"$ FT.

ANALYTES

VOA in. MEK

Oil and Grease

TOC

TOX

Phenolics

WATER VOLUME 2,255 G.

X3= 6,766 G.

FLOW RATE ~85 gpm G.P.M.

PUMPING TIME REQUIRED 13 1/2 MINS.

ACTUAL PUMPING TIME 15 MINS.

18.9 °C

222 CONDUCTIVITY (μ mhos)

7.90 pH

NOTES: X = NOT APPLICABLE

SAMPLER A.D./JDB

WESTON

CASTLE AFB

WELL I.D. PLU-3

DATE 22 JAN 85

TIME 0745

OPERATING has been pumping
12 hours

WATER LEVEL _____ FT.

PUMPING RATE approx 400 G.P.M.

TOTAL GALLONS PUMPED _____ G.

ANALYTES

VOA in MEK
Oil and Grease
Tox
Tox
Phenolics

STATIC X

TOTAL WELL DEPTH 290 FT.

S.W.L. approx 38 FT.

WATER COLUMN 252, 012" FT.

WATER VOLUME 1,981 G.

X3= 4,942 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED X MINS.

ACTUAL PUMPING TIME 12 hrs MINS.

7.8 °C

295 CONDUCTIVITY (µmhos)

7.56 pH

NOTES: X = NOT APPLICABLE

SAMPLER

JDB/ALD

WESTON

CASTLE AFB

WELL I.D. PW-5

DATE 22 JAN 85

TIME 1245

OPERATING intermittent
pressure controlled

STATIC X

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 120 FT.

PUMPING RATE ~ 30 gpm G.P.M.

S.W.L. approx 45 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 75, φ 8" FT.

ANALYSES

WATER VOLUME 196 G.

X3= 588 G.

VOA inc. MEK

oil and Grease

Toc

Tox

Phenolics

Nitrate Ion

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 35 MINS.

14.2 °C

202 CONDUCTIVITY (μmhos)

7.74 pH

NOTES: X = NOT APPLICABLE

SAMPLER MD/DB

WESTON

CASTLE AFB

WELL I.D. PW-6

DATE 22 JAN 85

TIME 1245

OPERATING intermittent
pressure controlled

STATIC X

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 120 FT.

PUMPING RATE 30 G.P.M.

S.W.L. approx 45 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 75, Ø8" FT.

ANALYTES

VOA inc MEK
O-D and Grease
TOL
TOX
Phenolics
Nitrate Ion

WATER VOLUME 196 G.

X3= 588 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 20 min MINS.

13.6 °C

206 CONDUCTIVITY (µmhos)

7.54 pH

NOTES: X = NOT APPLICABLE

SAMPLER ALD / DB

WESTON

CASTLE AFB

WELL I.D. PW-7

DATE 22 JAN 85

TIME 1100

OPERATING ~~YES~~ YES

STATIC ~~YES~~ X

WATER LEVEL ? FT.

TOTAL WELL DEPTH 260 FT.

PUMPING RATE 3,000 - 4,000 gph G.P.M.

S.W.L. approx 30 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 230, $\phi 14"$ FT.

ANALYTES

VSA inc MEK

OD and hexane

TDC

T5X

phenolics

WATER VOLUME 1,839 G.

X3= 5,518 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

19.3 °C

256 CONDUCTIVITY (μ mhos)

7.18 pH

NOTES: X = NOT APPLICABLE

SAMPLER ALD/5DB

DUPLICATE
LABELED
PW-10B

WESTON

CASTLE AFB

WELL I.D. FD-8

DATE JAN 22 55

TIME 1115

OPERATING yes (intermittent)
~~(intermittent pressure)~~
~~(controlled)~~

WATER LEVEL ? FT.

PUMPING RATE 3,200 - 4,000 gph G.P.M.

TOTAL GALLONS PUMPED _____ G.

ANALYTES

VOA inc MEK

oil and grease

TOL

TOX

Phenolics

STATIC X

TOTAL WELL DEPTH 300 FT.

S.W.L. approx 30 FT.

WATER COLUMN 270, $\phi 16"$ FT.

WATER VOLUME 2,802 G.

X3= 8,461 G.

FLOW RATE avg 3,200 - 4,000 gph G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

18.3 °C

239 CONDUCTIVITY (μ mhos)

7.74 pH

NOTES: X = NOT APPLICABLE

SAMPLER AND / JDB

WESTON

CASTLE AFB

WELL I.D. PW-11

DATE 22 JAN 85

TIME 1200

OPERATING (intermittent -
pressure controlled)

STATIC ✓

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 80 FT.

PUMPING RATE 10 G.P.M.

S.W.L. 11 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 69, $\phi 10"$ FT.

ANALYTES

WATER VOLUME ~~37~~ 201.5 G.

X3= 845 G.

VOA inc MEK

Oil and grease

TOC

TOX

Phenols

Nitrate

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

17.1 °C

189 CONDUCTIVITY (μ mhos)

7.40 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD / DB

WESTON

CASTLE AFB

WELL I.D. TW-12

DATE 1/23/68

TIME 1025

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 97 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 31 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 66 FT.

ANALYTES

VOA inc MCK
Oil and Grease
Toc
Tox
Metals (cd, cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pesticides/Herbicides

WATER VOLUME 43 G.

X3= 129 G.

FLOW RATE 30 G.P.M.

PUMPING TIME REQUIRED 5 MINS.

ACTUAL PUMPING TIME 6 MINS.

17.3 °C

580 CONDUCTIVITY (µmhos)

7.4 pH

NOTES: X = NOT APPLICABLE

SAMPLER ing

DUPLICATE
LABELED

TW-20

WELL WENT DRY AFTER

17:00 3.15 sec

~~GOODIE OUTSIDE SUMP~~
~~IS REMOVED~~
(Transformer malfunction)

WESTON

CASTLE AFB

WELL I.D. TW-13

DATE 23 JAN 85

TIME 1230

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 90 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 34 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 56 FT.

ANALYTES

VOA inc. MEK

oil and Grease

TOC

TOX

Metals (Cd, Cr, Pb, Hg, Ag)

Phenolics

Nitrate Ion

Pesticides/Herbicides

WATER VOLUME 27 G.

X3= 110 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

20.1 °C

573 CONDUCTIVITY (µmhos)

7.1 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/RA

WESTON

CASTLE AFB

WELL I.D. TW-14

DATE 23 JAN 95

TIME 845

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 92 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 35 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 57 FT.

ANALYTES

VOL MC. MEK
Oil and Grease
TOC
TOX
Phenolics

WATER VOLUME 37 G.

X3= 112 G.

FLOW RATE 30 gpm G.P.M.

PUMPING TIME REQUIRED 4 MINS.

ACTUAL PUMPING TIME 5 MINS.

20.1 °C

489 CONDUCTIVITY (µmhos)

7.2 pH

NOTES: X = NOT APPLICABLE

SAMPLER

AD / RA

WESTON

CASTLE AFB

WELL I.D. TW-15

DATE 23 JAN 85

TIME 1145

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 82 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 32 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 50 FT.

ANALYTICS

VOA inc METE

oil and grease

TOC

TOX

Metals (Cd, Cr, Pb, Hg, Ag)

Phenolics

Nitrate Ion

Pesticides/Herbicides

WATER VOLUME 53 G.

X3= 73 G.

FLOW RATE 30 gpm G.P.M.

PUMPING TIME REQUIRED 3r MINS.

ACTUAL PUMPING TIME 4 MINS.

19.2 °C

564 CONDUCTIVITY (µmhos)

7.1 pH

NOTES: X = NOT APPLICABLE

SAMPLER JRC

WESTON

CASTLE AFB

WELL I.D. TW-16

DATE 11/23/64

TIME 0915

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 102 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 38 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 64 FT.

ANALYTES

VIA inc MEK
Oil and Grease
TOC
TOX
Phenolics

WATER VOLUME 42 G.

X3= 125 G.

FLOW RATE 30 G.P.M.

PUMPING TIME REQUIRED 5 MINS.

ACTUAL PUMPING TIME 5 MINS.

20.2 °C

427 CONDUCTIVITY (µmhos)

7.3 pH

Pumped Dry 1 min
30555
15 SEC
15
11
11
1

NOTES: X = NOT APPLICABLE

SAMPLER JRG

WESTON

CASTLE AFB

WELL I.D. TW-17

DATE 1/23/95

TIME 8:05

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 100 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 35 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 65 FT.

ANALYTES

VOA inc. MEK

OD and Grease

TOC

TOX

Phenolics

Metals (Cd, Cr, Pb, Hg, Ag)

Nitrate Ion

Pesticides/Herbicides

WATER VOLUME 72 G.

X3= 127 G.

FLOW RATE 30 G.P.M.

PUMPING TIME REQUIRED 4 + MINS.

ACTUAL PUMPING TIME 5 MINS.

20.3 °C

459 CONDUCTIVITY (µmhos)

7.0 pH

NOTES: X = NOT APPLICABLE

SAMPLER _____

WESTON

CASTLE AFB

WELL I.D. TW-18

DATE 1/23/81

TIME 1400

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 89 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 38 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 51 FT.

ANALYTES

VOA inc MEK
oil and grease
TOC
TOX
Phenolics

WATER VOLUME 33 G.

X3= .00 G.

FLOW RATE 30 G.P.M.

PUMPING TIME REQUIRED 4 MINS.

ACTUAL PUMPING TIME 5 MINS.

19.5 °C

355 CONDUCTIVITY (µmhos)

7.3 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/RA

WESTON

CASTLE AFB

WELL I.D. TW-19

DATE 30 JAN 85

TIME 11615

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 78 FT.

PUMPING RATE _____ G.P.M.

S.W.L. approx 46 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 32 @ 8" FT.

ANALYTES

VIA inc. MEIK

OD and Grease

TOC

TOX

Phenolics

Nitrate Ion

WATER VOLUME 34 G.

X3= 51 G.

FLOW RATE ~5 G.P.M.

PUMPING TIME REQUIRED 50 MINS.

ACTUAL PUMPING TIME _____ MINS.

13.5 °C (not measured in field)

280 CONDUCTIVITY (µmhos)

7.6 pH

NOTES: X = NOT APPLICABLE

SAMPLER RA / AD

WESTON

(CASTLE AFB)

WELL I.D. MW 210

DATE 1-31-85

TIME 1445

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 92 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 36 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 56 FT.

ANALYTE

VOA inc. MCK
O&G and Grease
TOC
TOX
Phenolics

WATER VOLUME 37 G.

X3= 110 G.

FLOW RATE 3 3/4 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 35 MINS.

19.3 °C
427 CONDUCTIVITY (µmhos)
7.45 pH

19.1 °C
416 Ω
7.45 pH

NOTES: X = NOT APPLICABLE

SAMPLER DB + WM

Duplicate taken,
labeled MW 211

WESTON

CASTLE AFB

WELL I.D. MW 220

DATE 10-25-85

TIME 1155

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 91 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 34 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 57 FT.

ANALYTES

VOA inc. MEK
O.D. and Grease
TOC
TOX
Phenolics

WATER VOLUME 37 G.

X3= 112 G.

FLOW RATE 3.3 G.P.M.

PUMPING TIME REQUIRED 27 MINS.

ACTUAL PUMPING TIME 35 MINS.

20.0 °C

460 CONDUCTIVITY (µmhos)

7.23 pH

NOTES: X = NOT APPLICABLE

SAMPLER 17' N/A

WESTON

CASTLE AFB

WELL I.D. MW 230

DATE 1-31-85

TIME 1025

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 96 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 36 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 60 FT.

ANALYTES

VOA inc. MEK

Oil and Grease

TOC

TOX

Metals

Phenolics

Nitrate Ion

Pesticides/Herbicide

WATER VOLUME 39 G.

X3= 118 G.

FLOW RATE 3 3/4 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 40 MINS.

14.6 15.1 °C

336 241 CONDUCTIVITY (µmhos)

8.1 7.32 pH

NOTES: X = NOT APPLICABLE

SAMPLER DB+16M

WESTON

CASTLE AFB

WELL I.D. MW 240

DATE 1-31-85

TIME 1215

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 97 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 30 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 67 FT.

ANALYTES

Volatile Met
Oil and Grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 44 G.

X3= 131 G.

FLOW RATE 3 3/4 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 45 MINS.

16.4 °C

285 CONDUCTIVITY (µmhos)

7.00 pH

NOTES: X = NOT APPLICABLE

SAMPLER Brown

WESTON

CASTLE AFB

WELL I.D. HW 250

DATE 1-30-85

TIME 1640

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 95 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 35 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 60 FT.

ANALYTES

VOA inc MeK

OD and Grease

TOC

TOX

Metals

Phenols

Nitrate Ion

Pesticide

Halide

WATER VOLUME 39 G.

X3= 113 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 40 MINS.

16.5 °C

472 CONDUCTIVITY (µmhos)

7.48 pH

NOTES: X = NOT APPLICABLE

SAMPLER DS + W127

SITE Castle A+B

SAMPLERS: B, M

WELL I.D. MW260

DATE 1-30-85

TIME 1415

FIELD # GP55

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 94 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 34 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 60 FT.

WATER VOLUME 39 G.

X3= 118 G.

FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 417 MINS.

16.8 °C

27 CONDUCTIVITY (µmhos)

7.20 pH

DUPLICATE TAKEN (YES NO)

I.D. ASSIGNED MW261

FIELD # _____

16.9 °C

23 CONDUCTIVITY (µmhos)

7.22 pH

SAMPLES TAKEN:

NOA inc W/EK
JTG
MBC
13X
Mals
M...
Nitrate Ion
Pesticides
Herbicides

SAMPLES TAKEN:

same

WESTON

CASTLE AFB

WELL I.D. MW 270

DATE 1-30-85

TIME 1220

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 92 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 35 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 57 FT.

ANALYTES

UOA inc. MEK

Oil and Grease

TOC

TOX

Merabls

Phenolics

Nitrate Ion

Pesticides

Herbicides

WATER VOLUME 37 G.

X3= 112 G.

FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 40 MINS.

13.9 °C

522 CONDUCTIVITY (µmhos)

7.53 pH

NOTES: X = NOT APPLICABLE

SAMPLER DB + WM

WESTON

CASTLE AFB

WELL I.D. MW240

DATE 1-30-85

TIME 1010

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 91 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 34 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 57 FT.

Analyses

VOA inc. Mck
OS and Grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 37 G.

X3= 112 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 40 MINS.

14.6 °C

336 CONDUCTIVITY (µmhos)

8.10 pH

NOTES: X = NOT APPLICABLE

SAMPLER DB + WM

WESTON

CASTLE AFB

WELL I.D. MW 290

DATE 1-Feb 75

TIME 1020

OPERATING _____

STATIC 82

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 83 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 35 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 48 FT.

Analyses

VOL me. MeK
OD and Urease
TOC
TOX

WATER VOLUME 31 G.

X3= 94 G.

FLOW RATE 3.0 G.P.M.

PUMPING TIME REQUIRED 5724 MINS.

ACTUAL PUMPING TIME 33 MINS.

17.2 °C

350 CONDUCTIVITY (µmhos)

8.02 pH

NOTES: X = NOT APPLICABLE

SAMPLER 10/17/75

WESTON

CASTLE AFB

WELL I.D. W 300

DATE 2 Feb 85

TIME 1105

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 93 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 38 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 55 FT.

ANALYTICS

VOL inc MEK

Oil and Grease

TOC

TOX

WATER VOLUME 36 G.

X3= 108 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 22 MINS.

ACTUAL PUMPING TIME 30 MINS.

18.4 °C

416 CONDUCTIVITY (µmhos)

7.7 pH

NOTES: X = NOT APPLICABLE

SAMPLER

LA / AD

WESTON

CASTLE AFB

WELL I.D. HW 310

DATE 1 FEB 85

TIME 0925

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 90 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 34 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 56 FT.

ANALYTES

VOA inc. MEK
OD and Grease
TOC
TOX

WATER VOLUME 37 G.

X3= 110 G.

FLOW RATE ~~22~~ 5 G.P.M.

PUMPING TIME REQUIRED 22 MINS.

ACTUAL PUMPING TIME 24 MINS.

310	311	
16.5	16.5	°C
411	413	CONDUCTIVITY (µmhos)
7.6	7.6	pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/RA

Duplicate taken,
labeled MW311

WESTON

CASTLE AFB

WELL I.D. HW 320

DATE 31 JAN 85

TIME 1445

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 82 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 42 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 40 FT.

ANALYTES

VOA inc. MEW

Oil and Grease

TOC

TOX

~~Phenolics~~

Phenolics

Nitrate Ion

WATER VOLUME 26 G.

X3= 78 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 16 MINS.

ACTUAL PUMPING TIME 30 MINS.

17.5 °C

273 CONDUCTIVITY (µmhos)

7.8 pH

Note: Water still slightly
cloudy after 30
minutes pumping

NOTES: X = NOT APPLICABLE

SAMPLER RA / AD

WESTON

CASTLE AFB

WELL I.D. MW 330

DATE 31 JAN 85

TIME 1315

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 83 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 42 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 41 FT.

ANALYTES

VOA inc. MEK
Oil and Grease
Toc
TOX
Phenolics
Nitrate Ion

WATER VOLUME 27 G.

X3= 80 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 16 MINS.

ACTUAL PUMPING TIME 16 MINS.

8.5 °C

255 CONDUCTIVITY (µmhos)

8.4 pH

NOTES: X = NOT APPLICABLE

SAMPLER _____

WESTON

CASTLE AFB

WELL I.D. MW 340

DATE 31 JAN 85

TIME 11:5

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 83 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 43 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 40 FT.

ANALYTES

VOA inc. MCK
Oil and Grease
TOX
TOX
Phenolics
Nitrate Ion

WATER VOLUME 26 G.

X3= 78 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 15 MINS.

ACTUAL PUMPING TIME 16 MINS.

18 °C

243 CONDUCTIVITY (µmhos)

8.0 pH

NOTES: X = NOT APPLICABLE

SAMPLER RA/AD

WESTON

CASTLE AFB

WELL I.D. HW 350

DATE 29 Jan 85

TIME 13¹⁵

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 92 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 50 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 42 FT.

ANALYTES

VOA inc MEK
oil and grease
TOC
TOX
phenolics
Nitrate Ion
Metals
Pesticides, Herbicides

WATER VOLUME 27 G.

X3= 52 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 17 MINS.

ACTUAL PUMPING TIME 20 MINS.

15.8 °C (not measured at well)

388 309 CONDUCTIVITY (µmhos)

7.9 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/2A

WESTON

CASTLE AFB

WELL I.D. MW 360

DATE 1-29-85

TIME 1230

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 92 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 54 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 38 FT.

ANALYTES

VOA in. MeK
oil and grease
Tox
Tox
Metals
Phenols
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 25 G.

X3= 75 G.

FLOW RATE 2.5 G.P.M.

PUMPING TIME REQUIRED 30 MINS.

ACTUAL PUMPING TIME 30 MINS.

16.3 °C

480 CONDUCTIVITY (µmhos)

7.6 pH

NOTES: X = NOT APPLICABLE

SAMPLER DS/MP/MP

WESTON

CASTLE AFB

WELL I.D. HW 370

DATE 1-9-85

TIME 1450

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 99 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 58 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 41 FT.

ANALYTES

VOA inc. MEK
Oil and grease
Tox
Tox
Metals
Phenols
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 27 G.

X3= 80 G.

FLOW RATE 32.53 G.P.M.

PUMPING TIME REQUIRED 32 MINS.

ACTUAL PUMPING TIME 33.30 MINS.

16.6 = 17 °C

324 = 320 CONDUCTIVITY (µmhos)

7.9 pH

NOTES: X = NOT APPLICABLE

SAMPLER DB/WM/MD

WESTON

CASTLE AFB

WELL I.D. MW 380

DATE 24 JAN 85

TIME 0930

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 95 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 62 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 33 FT.

ANALYTES

VOA Inc. MEK
O.D. and Grease
TOC
TOX
Metals
Pesticides
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 22 G.

X3= 65 G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 13 MINS.

ACTUAL PUMPING TIME 13 MINS.

21.3 °C

487 CONDUCTIVITY (µmhos)

7.2 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/IRA/LWM

WESTON

CASTLE AFB

WELL I.D. MW 390

DATE 28 JAN

TIME 0930

OPERATING 7

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 104 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 60 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 44 FT.

ANALYTES

VOA inc. MEK
Oil and Grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 29 G.

X3= 86 G.

FLOW RATE ~5 G.P.M.

PUMPING TIME REQUIRED 17 MINS.

ACTUAL PUMPING TIME 22 MINS.

5.6 °C

258 CONDUCTIVITY (µmhos)

7.2 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/DB

WESTON

CASTLE AFB

WELL I.D. MW 400

DATE 28 JAN 85

TIME 11 45

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 100 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 55 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 45 FT.

ANALYTES

VOA inc MEK
Oil and Grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 29 G.

X3= 88 G.

FLOW RATE ~5 G.P.M.

PUMPING TIME REQUIRED 18 MINS.

ACTUAL PUMPING TIME 20 MINS.

16 °C

520 CONDUCTIVITY (µmhos)

7.51 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/MN/WM

WESTON

CATTLE AFB

WELL I.D. MW 410

DATE 28 JAN 85

TIME 1420

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 97 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 50 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 47 FT.

ANALYTES

VOA inc. MEK
oil and grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 31 G.

X3= 92 G.

FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED 31 MINS.

ACTUAL PUMPING TIME 37 MINS.

8 °C

500 CONDUCTIVITY (µmhos)

6.2 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/MN

WESTON

CASTLE AFB

WELL I.D. MW 470

DATE 24 JAN 85

TIME 1000

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 100 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 51 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 49 FT.

ANALYTES

Vol. in. MEK

OR G

TOC

TOX

Metals

Phenols

Nitrate Ion

Pesticides/Herbicides

WATER VOLUME 52 G.

X3= 96 G.

FLOW RATE 5.2 G.P.M.

PUMPING TIME REQUIRED 20 ~~100~~ MINS.

ACTUAL PUMPING TIME 25 MINS.

20.3 °C

304 CONDUCTIVITY (µmhos)

7.7 pH

NOTES: X = NOT APPLICABLE

SAMPLER AD/DB/RA

SITE CASTLE AFBSAMPLERS: AD/RAWELL I.D. MW 430DATE 30 JAN 85TIME 0930

FIELD # _____

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 81 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 50 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 31 FT.ANALYTES

VOA inc MEK
Oil and Grease
TOC
TOX
Phenolics

WATER VOLUME 20 G.X3= 61 G.FLOW RATE ~ 5 G.P.M.PUMPING TIME REQUIRED 12 MINS.ACTUAL PUMPING TIME 13 MINS.14.9 °C384 CONDUCTIVITY (µmhos)7.9 pH

SAMPLES TAKEN:

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

SITE CASTLE AFB

SAMPLERS: AD/MN/WM

WELL I.D. MW 440

DATE 28 Jan 85

TIME 1530

FIELD # _____

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 99 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 46 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 53 FT.

ANALYTES

VOA inc. MEK
oil and grease
TOC
TOX
phenolics

WATER VOLUME 35 G.

X3= 104 G.

FLOW RATE ~ 5+ G.P.M.

PUMPING TIME REQUIRED 20 MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C

_____ CONDUCTIVITY (μmhos)

_____ pH

SAMPLES TAKEN:

DUPLICATE TAKEN

YES

NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (μmho)

_____ pH

SAMPLES TAKEN:



SITE CASILL AFBSAMPLERS: AD/DB/RAWELL I.D. 4.0 450DATE 24 JAN 85TIME 1130

FIELD # _____

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 97 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 42 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 50 FT.WATER VOLUME 32 G.X3= 96 G.FLOW RATE 5 G.P.M.PUMPING TIME REQUIRED 20 MINS.

ACTUAL PUMPING TIME _____ MINS.

19.8 °C
329 CONDUCTIVITY (µmhos)
7.5 pH

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

VOA inc. Mch.
oil and grease
TOC
TOX
phenolics
Nitrate Ion

SAMPLES TAKEN:

SITE AS 12 AFB

SAMPLERS: _____

WELL I.D. 11.0 450DATE 30 JAN 85TIME 1200

FIELD # _____

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 100 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 48 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 52 FT.ANALYTESVOA inc. MEK
Oil and Grease

TOC

TOX

Metals

Phenolics

Nitrate Ion

Pesticides

Herbicides

WATER VOLUME 34 G.X3= 102 G.FLOW RATE ~ 4 G.P.M.PUMPING TIME REQUIRED 25 MINS.ACTUAL PUMPING TIME 35 MINS.15.2 °C200 CONDUCTIVITY (µmhos)8.1 pH

SAMPLES TAKEN:

DUPLICATE TAKEN YES NOI.D. ASSIGNED MW 461FIELD # "15.0 °C206 CONDUCTIVITY (µmhos)8.0 pH

SAMPLES TAKEN:

(same)

SITE CASTLE AFBSAMPLERS: AD/RAWELL I.D. MW 470DATE 29 JAN 85TIME 1515

FIELD # _____

OPERATING X

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH 100 FT.

PUMPING RATE _____ G.P.M.

S.W.L. 46 FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN 54 FT.ANALYTES

VOA in MEK
Oil and Grease
TOC
TOX
Metals
Phenolics
Nitrate Ion
Pesticides
Herbicides

WATER VOLUME 35 G.X3= 106 G.FLOW RATE ~5 G.P.M.PUMPING TIME REQUIRED 21 MINS.ACTUAL PUMPING TIME 22 MINS.17.8 °C238 CONDUCTIVITY (µmhos)8.5 pH

SAMPLES TAKEN:

DUPLICATE TAKEN YES (NO)

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

SITE Castle AFBSAMPLERS: B/M/NWELL I.D. FB-1DATE 1-30-85TIME 0830FIELD # FB-1

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH _____ FT.

PUMPING RATE _____ G.P.M.

S.W.L. _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN _____ FT.

Note:

Field Blank 1 consisted of
mineralized water pumped
through a stream pump and
then through the sampling
pump - sample collected
near end of 1/2" stainless
steel pump discharge line.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 20 MINS.

_____ °C

_____ CONDUCTIVITY (μmhos)

_____ pH

SAMPLES TAKEN:

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

30.4 °C42 CONDUCTIVITY (μmhos)10.2 pH

SAMPLES TAKEN:

SITE FIELD BLANKSAMPLERS: AD/RAWELL I.D. FB-2DATE 31 JAN 85TIME 0920FIELD # FB-2

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH _____ FT.

PUMPING RATE _____ G.P.M.

S.W.L. _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN _____ FT.

NOTE:

Field Blank 2 consisted of demineralized water pumped through a steam jenny (heated), then through the sampling pump. Sample collected from end of teflon/stainless steel pump discharge line, except for oil and grease, which was collected from barrel dipped in decontamination tank.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

14.8 °C20.3 CONDUCTIVITY (µmhos)10.1 pH

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

VOA inc. MEK
Oil and Grease
TOC
Total
Metals
Phenolics
Nitrate for

SAMPLES TAKEN:

SITE FIELD BLANKSAMPLERS: AD/RAWELL I.D. FB-3DATE 31 JAN 88TIME 0930FIELD # FB-3

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH _____ FT.

PUMPING RATE _____ G.P.M.

S.W.L. _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN _____ FT.

NOTE

Field Blank 3 consisted of a ^{demineralized} water ~~collected~~ pumped through a steam jenny, collected from the end of the steam wand

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

9.1 °C38 CONDUCTIVITY (µmhos)10.2 pH

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

VOA Inc. MEIK (EPA 601)

VOA (EPA 602)

SAMPLES TAKEN:

SITE FIELD BLANKSAMPLERS: AD/RAWELL I.D. FB-4DATE 3 JAN 85TIME 0940FIELD # FB-4

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH _____ FT.

PUMPING RATE _____ G.P.M.

S.W.L. _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN _____ FT.

NOTE

Field Blank 4 consisted of discharge from the demineralized water line (PVC and galvanized) before it was pumped through steam jetting or sample pump

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

6.9 °C25 CONDUCTIVITY (µmhos)10.1 pH

SAMPLES TAKEN:

VJA inc MCK (EPA 601)

VJA (EPA 602)

DUPLICATE TAKEN YES NO

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

SAMPLES TAKEN:

SURFACE WATER LOG SHEET

Site Catle AFB Samplers MAN
 Field # CEHL 6N850197
 Sample I.D. SE-1 Date 3-4-85 Time 1000

Water Level 0.42

10 °C (Immediate)
370 Conductivity (umhos)
8.6 pH
10 °C (at pH Cond. Readings)

Samples Taken:

EPA 601
 EPA 602 + MSR
 EPA 603 + MSR
 TSS
 TOX
 Metals
 Phenols
 Nitrates
 Per + Herb

Duplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

____ °C
 _____ Conductivity (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle 7 F13 Samplers DEIN
 Field # LEHL 6.4850198
 Sample I.D. SG-2 Date 3-4-85 Time 1030

Water Level 6.07

11 °C (Immediate)
560 Conductivity
8.8 (umhos)
7.6 pH
7.6 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrates
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFR Samplers men
 Field # CEHL GNS50199
 Sample I.D. SG-3 Date 3-4-85 Time 1100

Water Level 2.20

12 °C (Immediate)
630 Conductivity
8.0 (umhos)
9.8 pH
9.8 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 - metal
 oil + grease
 TOC
 TOX
 Metals
 Phenols
 Nitrates
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers MDN
 Field # CEHL 6N850200
 Sample I.D. SG-4 Date 3-4-85 Time 1110

Water Level 0.65

11 °C (Immediate)
270 Conductivity
8.0 (umhos)
9.5 pH
9.5 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrate
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 _____ (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers 1221
 Field # CEHL 6N850201
 Sample I.D. SG-5 Date 3-4-85 Time 1200

Water Level 8.30

11 °C (Immediate)
240 Conductivity
 (umhos)
7.5 pH
10.8 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + mek
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrate
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C
 _____ Conductivity
 (umhos)
 _____ pH

SURFACE WATER LOG SHEET

Site Castle AFB Samplers MGM
 Field # DEHLGN850202
 Sample I.D. SG-6 Date 3-4-85 Time 1225

Water Level 6.38

11 °C (Immediate)
210 Conductivity
 (umhos)
7.2 pH
8.5 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrate
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned SG-6a

Field # DEHLGN850203

8.5 °C
210 Conductivity
 (umhos)
7.3 pH

Samples Taken:

EPA 601
 EPA 602 + MEK
 O+G
 TOC
 TOX
 Metals
 Phenols
 Nitrate
 Pest/Herb

SURFACE WATER LOG SHEET

Site Castle AFB Samplers MGM
 Field # DEHL 6 N50204
 Sample I.D. SE-7 Date 3-4-85 Time 1255

Water Level 2.64

13 °C (Immediate)
180 Conductivity
7.4 (umhos)
14 pH
14 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C
 _____ Conductivity
 (umhos)
 _____ pH

SURFACE WATER LOG SHEET

Site Castle AFR Samplers mm
 Field # DE46 GNS5205
 Sample I.D. SG-8 Date 3-4-85 Time 1305

Water Level 1.90

12 °C (Immediate)
230 Conductivity
7.4 (umhos)
 pH
13 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers MBN
 Field # OEHL GN850206
 Sample I.D. SG-9 Date 3-4-85 Time 1315

Water Level 3.50

12 °C (Immediate)
210 Conductivity
 (umhos)
8.3 pH
13 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + mcl
 Oil + Grease
 TOC
 TOX

Duplicate Taken: yes no

I.D. Assigned SG-9a

Field # OEHL GN850207

13 °C
210 Conductivity
 (umhos)
8.4 pH

Samples Taken:

EPA 601
 EPA 602 + mcl
 Oil + Grease
 TOC
 TOX

LOG SHEETS
SECOND ROUND WATER SAMPLING
1-12 APRIL 1985

Site Castle AFB

PRODUCTION WELL

Samplers DB DJ/AD

Field # _____

Sample I.D. New PW

Date 4-9-85 Time 1300

STATIC _____

OPERATING X

TOTAL WELL DEPTH _____ FT.

WATER LEVEL _____ FT.

S.W.L. _____ FT.

PUMPING RATE _____ G.P.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C (Immediate)

296 Conductivity
(umhos)

7.13 pH

27.9 °C (at pH Cond.
Readings)

SAMPLES TAKEN:

ERA 601

ERA 602 + MEH

O + G

TOC

TOX

Phenolics

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

Site Castle AFB

PRODUCTION WELL

Samplers 03 + AD + DJ

Field # _____

Sample I.D. PW-1Date 4-9-85 Time 0830

STATIC _____

OPERATING _____

TOTAL WELL DEPTH 273 FT.

WATER LEVEL _____ FT.

S.W.L. _____ FT.

PUMPING RATE _____ G.P.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE ~ 500 gpm G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 20 MINS.

SAMPLES TAKEN:

VOA + MEK

Oil + Grease

TOL

TOX

Phenolics

____ °C (Immediate)

286Conductivity
(umhos)7.18

pH

26.3°C (at pH Cond.
Readings)

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

____ °C

CONDUCTIVITY (umhos)

____ pH

PRODUCTION WELL

Site Castle AFB Samplers BS+DT
 Field # _____
 Sample I.D. PW-2 Date 4-9-85 Time 0910

STATIC ✓

OPERATING _____

TOTAL WELL DEPTH 320 FT.

WATER LEVEL _____ FT.

S.W.L. 40 FT.

PUMPING RATE _____ G.P.

WATER COLUMN 280 FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE ~500 gpm G.P.M.

SAMPLES TAKEN:

VOA + MEK
 Oil + Grease
 TOC
 TOX
 Phenolics

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C (Immediate)

280 Conductivity
 (umhos)

7.54 pH

26.2 °C (at pH Cond.
 Readings)

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

CONDUCTIVITY (umhos)

Site Castle AFB PRODUCTION WELL Samplers DB/DT
Field # _____
Sample I.D. PW.3 Date 1-9-85 Time 0945

STATIC _____

TOTAL WELL DEPTH 290 FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE ~ 400 gpm G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C (Immediate)

276 Conductivity
(umhos)

7.42 pH

26.4 °C (at pH Cond.
Readings)

OPERATING _____

WATER LEVEL _____ FT.

PUMPING RATE _____ G.P

TOTAL GALLONS PUMPED _____ G.

SAMPLES TAKEN:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

Site Castle AFB

PRODUCTION WELL

Samplers BS + DJ

Field # _____

Sample I.D. PW-4

Date 4-9-85 Time 1005

STATIC _____

OPERATING _____

TOTAL WELL DEPTH 290 FT.

WATER LEVEL _____ FT.

14" diam.

S.W.L. _____ FT.

PUMPING RATE _____ G.P.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

SAMPLES TAKEN:

EPA601
EPA602+MEH
O+G
TOC
TOX
Phenolics
Metals
Nitrate
Pest/Herb

_____ °C (Immediate)

269 Conductivity
(umhos)

7.53 pH

24.9 °C (at pH Cond.
Readings)

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

Site Castle AFB PRODUCTION WELL Samplers DB/AD
Field # _____
Sample I.D. PW-5 Date 4-9-85 Time 1415

STATIC X

TOTAL WELL DEPTH 120 FT.

S.W.L. UA FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE ~30 gpm 35 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 12 MINS.

_____ °C (Immediate)

229 Conductivity
(umhos)

7.54 pH

24.4 °C (at pH Cond.
Readings)

OPERATING _____

WATER LEVEL _____ FT.

PUMPING RATE _____ G.P.

TOTAL GALLONS PUMPED _____ G.

SAMPLES TAKEN:

VOA & MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ions

DUPLICATE TAKEN YES NO

I.D. ASSIGNED PW-5A

FIELD # _____

24.5 °C

228 CONDUCTIVITY (umhos)

7.53 pH

SAMPLES TAKEN:

VOA + MEK
Oil + G
TOC
TOX
Phenolics
Nitrate

Site Castle AFB PRODUCTION WELL Samplers DB/DJ/AD
Field # _____
Sample I.D. PW-6 Date 4-9-85 Time 1505

STATIC X

OPERATING _____

TOTAL WELL DEPTH 120 FT.

WATER LEVEL _____ FT

S.W.L. NA FT.

PUMPING RATE _____ G.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE 30 G.P.M.

SAMPLES TAKEN:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ion

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 15 MINS.

_____ °C (Immediate)

231 Conductivity
(umhos)

7.55 pH

24.6 °C (at pH Cond.
Readings)

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

Site Castle AFB PRODUCTION WELL - Samplers DB/DJ/AD
Field # _____
Sample I.D. PW-7 Date 4-7-85 Time 1100

STATIC _____

OPERATING X

TOTAL WELL DEPTH 260 FT.

WATER LEVEL _____ FT.

S.W.L. _____ FT.

PUMPING RATE _____ G.P.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE 3000-4000 gph G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C (Immediate)

295 Conductivity
(umhos)

7.50 pH

25.7 °C (at pH Cond.
Readings)

SAMPLES TAKEN:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

*Well pumping already
pumped 10 min. before
sampling*

DUPLICATE TAKEN

YES

NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C

_____ CONDUCTIVITY (umhos)

Site Castle AFB

PRODUCTION WELL

Samplers DB/DJ/AD

Field # _____

Sample I.D. PW-8Date 4-9-85 Time 1105

STATIC _____

OPERATING XTOTAL WELL DEPTH 300 FT.WATER LEVEL No Reading Possible FT.

S.W.L. _____ FT.

PUMPING RATE _____ G.P.

WATER COLUMN _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

SAMPLES TAKEN:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

Well pumping - pumped ~
5 min. after arrival
before taking samples.

_____ °C (Immediate)

271 Conductivity
(umhos)7.54 pH25.5 °C (at pH Cond.
Readings)DUPLICATE TAKEN YES NOI.D. ASSIGNED PW-8A

FIELD # _____

25.6 °C270 CONDUCTIVITY (umhos)7.49 pH

SAMPLES TAKEN:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

Site Castle AFB

PRODUCTION WELL

Samplers DB/DJ

Field # _____

Sample I.D. PW-11

Date 4-9-85 Time 1530

STATIC _____

TOTAL WELL DEPTH 80 FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.
X3= _____ G.

FLOW RATE 10 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

_____ °C (Immediate)
22.3
_____ Conductivity
751 (umhos)
_____ pH
24.6 °C (at pH Cond.
Readings)

OPERATING _____

WATER LEVEL _____ FT.

PUMPING RATE _____ G.P.

TOTAL GALLONS PUMPED _____ G.

SAMPLES TAKEN:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ion

DUPLICATE TAKEN YES NO

SAMPLES TAKEN:

I.D. ASSIGNED _____

FIELD # _____

_____ °C
_____ CONDUCTIVITY (umhos)
_____ pH

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers AD/WM
Field # _____
Sample I.D. TW-12 Date 10 APR 85 Time 1300

TOTAL WELL DEPTH 97 FT.
S.W.L. 30.61 FT.
WATER COLUMN 66 FT.
WATER VOLUME 45 G.
X3= 135 G.
FLOW RATE 15 G.P.M.
PUMPING TIME REQUIRED 9 MINS.
ACTUAL PUMPING TIME 14 MINS.
BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

18 °C (Immediate)
570 Conductivity (umhos)
6.94 pH
22.4 °C (at pH Cond. Readings)

Duplicate Taken: yes ☒ no
I.D. Assigned _____
Field # _____

_____ °C (Immediate)
_____ Conductivity (umhos)
_____ pH
_____ °C (at pH Cond. Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers AD/um
Field # _____
Sample I.D. TW-13 Date 10 April 85 Time 15¹⁰

TOTAL WELL DEPTH 90 FT.
S.W.L. 33.69 FT.
WATER COLUMN 55 FT.
WATER VOLUME 37.6 G.
X3= 113 G.
FLOW RATE 15 G.P.M.
PUMPING TIME REQUIRED 8 MINS.
ACTUAL PUMPING TIME 10 MINS.
BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

21 °C (Immediate)
562 Conductivity
6.88 (umhos)
pH
22.2 °C (at pH Cond
Readings)

Duplicate Taken: yes no
I.D. Assigned _____
Field # _____

_____ °C (Immediate)
_____ Conductivity
_____ (umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AEBSamplers DB/DJ/AC

Field # _____

Sample I.D. TW-14Date 4-10-85 Time 1600TOTAL WELL DEPTH 92 FT.S.W.L. 39.94 FT.WATER COLUMN 57 FT.WATER VOLUME 39 G.X3= 117 G.FLOW RATE 30 G.P.M.PUMPING TIME REQUIRED 4 MINS.ACTUAL PUMPING TIME 6 MINS.

BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

21 °C (Immediate)470 Conductivity
(umhos)7.02 pH21.6 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers AD/WM
Field # _____
Sample I.D. TW-15 Date 10 April 1985 Time 1445

TOTAL WELL DEPTH 82.1 FT.S.W.L. 32 31.97 FT.WATER COLUMN 50 FT.WATER VOLUME 34 G.X3= 102 G.FLOW RATE 15 G.P.M.PUMPING TIME REQUIRED 7 MINS.ACTUAL PUMPING TIME 8 MINS.

BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

21 °C (Immediate)555 Conductivity
(umhos)6.99 pH23.0 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site

Castle AEB

Samplers

AD/WM

Field #

Sample I.D.

TW-16

Date

10 Apr 83

Time

1630

TOTAL WELL DEPTH 102 FT.

S.W.L. 37.97 FT.

WATER COLUMN 64 FT.

WATER VOLUME 44 G.

X3= 131 G.

FLOW RATE 210 G.P.M.

PUMPING TIME REQUIRED 15 MINS.

ACTUAL PUMPING TIME 20 MINS.

BAILED

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

21.0

°C (Immediate)

438

Conductivity
(umhos)

6.67

pH

22.5

°C (at pH Cond.
Readings)

Duplicate Taken:

yes

no

I.D. Assigned

TW-21

Field #

2

°C (Immediate)

424

Conductivity
(umhos)

6.71

pH

22.4

°C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers AD/WM

Field # _____

Sample I.D. TW-17Date 10 April 1985 Time 16⁰⁰TOTAL WELL DEPTH 100 FT.S.W.L. 34 00 FT.WATER COLUMN 66 FT.WATER VOLUME 45 G.X3= 135 G.FLOW RATE 10 G.P.M.PUMPING TIME REQUIRED 14 MINS.ACTUAL PUMPING TIME 15 MINS.

BAILED _____

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Metals (Cd, Cr, Pb, Hg, Ag)

Phenolics

Nitrate Ion

Pest/Herb

21 °C (Immediate)521 Conductivity
(umhos)7.00 pH22.3 °C (at pH Cond
Readings)Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DT/AD

Field # _____

Sample I.D. TW-18Date 4-10-85 Time 1635TOTAL WELL DEPTH 89 FT.S.W.L. 37.92 FT.WATER COLUMN 51 FT.WATER VOLUME 548 G.X3= 104 G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

21

°C (Immediate)

346Conductivity
(umhos)7.27

pH

21.7°C (at pH Cond.
Readings)

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers WCM & JRA
Field # _____
Sample I.D. TW-19 Date 4-3-85 Time 1525

TOTAL WELL DEPTH 78 FT.
S.W.L. 44.60 FT.
WATER COLUMN 33 FT.
WATER VOLUME 86.2 G.
X3= 259 G.
FLOW RATE 5.0 G.P.M.
PUMPING TIME REQUIRED 52 MINS.
ACTUAL PUMPING TIME 55 MINS.
BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ion

21.5 °C (Immediate)
260 Conductivity
7.4 (umhos)
7.4 pH
29.5 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)
_____ Conductivity
_____ (umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD / WM
Field # _____
Sample I.D. TW-19 Date 11 April 85 Time 1525

TOTAL WELL DEPTH 76 FT.S.W.L. 44.98 FT.WATER COLUMN 31 FT.WATER VOLUME 81 G.X3= 243 G.FLOW RATE 5.5 G.P.M.PUMPING TIME REQUIRED 44 MINS.ACTUAL PUMPING TIME 55 MINS.

BAILED _____

8" diameter

Samples Taken:

VOA + MEK~~Q-1000-1-1~~~~100~~~~100~~

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond
Readings)Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond.
Readings)

Site Castle AFBSamplers DB/AJ

Field # _____

Sample I.D. MW210Date 4-5-85Time 0850TOTAL WELL DEPTH 92 FT.S.W.L. 35.18 FT.WATER COLUMN 57 FT.WATER VOLUME 37 G.X3= 111 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 37 MINS.ACTUAL PUMPING TIME 37 MINS.

BAILED _____

40 ft screenDuplicate Taken: yes noI.D. Assigned W-1, W-2, W-3

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics815
37
11117 °C (Immediate)10 Conductivity
6.88 (umhos)
pH91.5 °C (at pH Cond.
Readings)

Samples Taken:

3x VOA + MEK (EPA 601 + 602)

Note: Came back at 1230 and
took 3 duplicate VOA samples
using 3 different sampling
techniques (see field book)

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DJ

Field # _____

Sample I.D. MW-220Date 4-4-85Time 1410TOTAL WELL DEPTH 91 FT.S.W.L. 32.91 FT.WATER COLUMN 58 FT.WATER VOLUME 38 G.X3= 114 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 38 MINS.ACTUAL PUMPING TIME 28 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics

23

°C (Immediate)

464Conductivity
(umhos)6.9

pH

23.8°C (at pH Cond.
Readings)Duplicate Taken: yes noI.D. Assigned 221

Field # _____

23

°C (Immediate)

484Conductivity
(umhos)6.82

pH

24.2°C (at pH Cond.
Readings)

Samples Taken:

VOA + mek
Oil + Grease
TOC
TOX
Phenols

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers DB/DJ

Field # _____

Sample I.D. MW 230Date 4-3-85 Time 0910TOTAL WELL DEPTH 96 FT.S.W.L. 35.92 FT.WATER COLUMN 60 FT.WATER VOLUME 39 G.X3= 118 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 39 MINS.ACTUAL PUMPING TIME 40 MINS.

BAILED _____

40ft screen

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb19.2 °C (Immediate)281 Conductivity
7.04 (umhos)
pH_____ °C (at pH Cond.
Readings)

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers DB/DT

Field # _____

Sample I.D. MW 240Date 4-3-85Time 1445TOTAL WELL DEPTH 97 FT.S.W.L. 30.23 FT.WATER COLUMN 67 FT.WATER VOLUME 44 G.X3= 132 G.FLOW RATE 3-3.75 G.P.M.PUMPING TIME REQUIRED 44 MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

21 °C (Immediate)
278 Conductivity
6.3 (umhos)
6.3 pH
21.9 °C (at pH Cond
Readings)

Duplicate Taken: (yes) noI.D. Assigned MW 241

Field # _____

21 °C (Immediate)
261 Conductivity
6.25 (umhos)
6.25 pH
21.2 °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
O + G
TOC
TOX
Metals
Phenolics
Nitrate
Pest/Herb

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers DB/DJ
Field # _____
Sample I.D. MW 250 Date 4-3-85 Time 145

TOTAL WELL DEPTH 95 FT.S.W.L. 34.06 FT.WATER COLUMN 61 FT.WATER VOLUME 40 G.X3= 120 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 40 MINS.ACTUAL PUMPING TIME 40 MINS.

BAILED _____

40 ft screenDuplicate Taken: yes no

I.D. Assigned _____

Field # _____

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

19 °C (Immediate)571 Conductivity
(umhos)
7.13 pH19.6 °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers DB/DJ

Field # _____

Sample I.D. MW 26CDate 4-3-85 Time 1240TOTAL WELL DEPTH 94 FT.S.W.L. 35.51 FT.WATER COLUMN 58 FT.WATER VOLUME 38 G.X3= 114 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 38 MINS.ACTUAL PUMPING TIME 40 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

19 °C (Immediate)693 Conductivity
(umhos)7.23 pH20.8 °C (at pH Cond.
Readings)

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers DB/DJ

Field # _____

Sample I.D. MW 270Date 4-4-85Time 1100TOTAL WELL DEPTH 92 FT.S.W.L. 34.47 FT.WATER COLUMN 57.5 FT.WATER VOLUME 38 G.X3= 114 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 38 MINS.ACTUAL PUMPING TIME 38 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Metals (Cd, Cr, Pb, Hg, Ag)

Phenolics

Nitrate Ion

Pest/Herb

20

°C (Immediate)

631Conductivity
(umhos)6.79

pH

20.8°C (at pH Cond.
Readings)

Duplicate Taken: yes

(no)

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DJ

Field # _____

Sample I.D. MW-280Date 4-4-85 Time 0925TOTAL WELL DEPTH 91 FT.S.W.L. 33.52 FT.WATER COLUMN 57 FT.WATER VOLUME 37 G.X3= 112 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 37 MINS.ACTUAL PUMPING TIME 37 MINS.

BAILED _____

40 ft screenDuplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb

_____ °C (Immediate)

380 Conductivity
(umhos)6.89 pH21.7 °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers WCM & JRA
Field # _____
Sample I.D. MW 290 Date 4-4-85 Time 1455

TOTAL WELL DEPTH 83 FT.
S.W.L. 35.39 FT.
WATER COLUMN 48 FT.
WATER VOLUME 31.3 G.
X3= 94 G.
FLOW RATE 50 G.P.M.

PUMPING TIME REQUIRED 19 MINS.

ACTUAL PUMPING TIME 21 MINS.

BAILED _____

20 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX

21.5 °C (Immediate)
330 Conductivity (umhos)
7.6 pH
22.9 °C (at pH Cond. Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

____ °C (Immediate)
____ Conductivity (umhos)
____ pH
____ °C (at pH Cond. Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DR/DJ

Field # _____

Sample I.D. MW290Date 4-11-85 Time 1100TOTAL WELL DEPTH 8.3 FT.S.W.L. 35.49 FT.WATER COLUMN 47.5 FT.WATER VOLUME 31 G.X3= 93 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 31 MINS.ACTUAL PUMPING TIME 31 MINS.

BAILED _____

20 ft screen

Samples Taken:

VOA + MEK~~Oil + Grease~~~~PCB~~~~TOX~~Phenolics

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)Duplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers WCM & JCA

Field # _____

Sample I.D. MW 300Date 4-5-85Time 0900TOTAL WELL DEPTH 93 FT.S.W.L. 37.92 FT.WATER COLUMN 55 FT.WATER VOLUME 36 G.X3= 108 G.FLOW RATE 50 G.P.M.PUMPING TIME REQUIRED 22 MINS.ACTUAL PUMPING TIME 23 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

21.5

°C (Immediate)

390Conductivity
(umhos)7.8

pH

21.8°C (at pH Cond.
Readings)Duplicate Taken: yes noI.D. Assigned MW 301

Field # _____

21.5

°C (Immediate)

390Conductivity
(umhos)7.8

pH

21.8°C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK

Oil + G

TOC

TOX

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DField # MW 300

Sample I.D. _____

Date 4-11-85 Time 0930TOTAL WELL DEPTH 93 FT.S.W.L. ~~38.01~~ 38.01 FT.WATER COLUMN 55 FT.WATER VOLUME 36 G.X3= 108 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 36 MINS.ACTUAL PUMPING TIME 36 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK~~VOA + MEK~~~~VOA + MEK~~~~VOA + MEK~~~~VOA + MEK~~~~VOA + MEK~~

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)Duplicate Taken: yes noI.D. Assigned MW 301

Field # _____

Samples Taken:

VOA + MEK

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD/WM
Field # _____
Sample I.D. NW 310 Date 11 April 85 Time 1335

TOTAL WELL DEPTH 90 FT.
S.W.L. 34.06 FT.
WATER COLUMN 56 FT.
WATER VOLUME 38.2 G.
X3= 115. G.
FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 23 MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

40 ft screen

Duplicate Taken: yes no
I.D. Assigned _____
Field # _____

____ °C (Immediate)
____ Conductivity (umhos)
____ pH
____ °C (at pH Cond. Readings)

Samples Taken:

VOA + MEK

~~SP-1000~~

~~FOC~~

~~TOX~~

Plumage

~~27-10-10-10-10~~

____ °C (Immediate)

____ Conductivity (umhos)

____ pH

____ °C (at pH Cond. Readings)

Samples Taken:

AD-A168 228

INSTALLATION RESTORATION PROGRAM PHASE II

2/2

CONFIRMATION/QUANTIFICATION STA. (U) WESTON (ROY F) INC

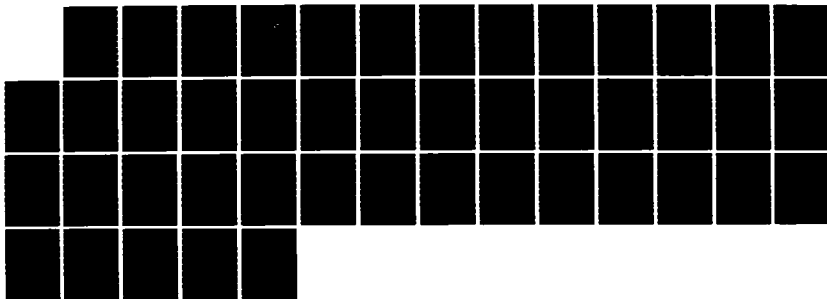
WEST CHESTER PA A L DUNN ET AL. 28 JUN 85

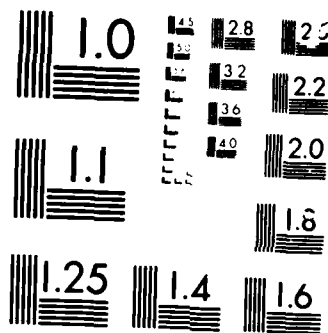
UNCLASSIFIED

F33615-84-D-4488

F/G 13/2

NL





MICROCOPY

10000

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers WCM & JRA
Field # _____
Sample I.D. MW-310 Date 4-5-85 Time 1025

TOTAL WELL DEPTH 90 FT.S.W.L. 33.98 FT.WATER COLUMN 56 FT.WATER VOLUME 36.6 G.X3= 110 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 22 MINS.ACTUAL PUMPING TIME 25 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

21.5

°C (Immediate)

393Conductivity
(umhos)7.4

pH

22.2°C (at pH Cond.
Readings)Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers WCM JRA
Field # _____
Sample I.D. MW 320 Date 4-4-85 Time 1330

TOTAL WELL DEPTH 82 FT.S.W.L. 41.47 FT.WATER COLUMN 41 FT.WATER VOLUME 26.8 G.X3= 80 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 16 MINS.ACTUAL PUMPING TIME 22 MINS.

BAILED _____

3 cft screenDuplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

Nitrate Ion

21.5 °C (Immediate)220 Conductivity
(umhos)8.2 pH22.8 °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD/WM
Field # _____
Sample I.D. MW 320 Date 11 April 85 Time 12¹⁵

TOTAL WELL DEPTH 82 FT.S.W.L. 41.74 FT.WATER COLUMN 40 FT.WATER VOLUME 27.3 G.X3= 82 G.FLOW RATE 5 G.P.M.PUMPING TIME REQUIRED 17 MINS.ACTUAL PUMPING TIME 18 MINS.

BAILED _____

30 ft Screen

Samples Taken:

VOA + MEK~~CHLORIDE~~~~DOC~~~~FOR~~

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond.
Readings)

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers WCM + JRA
Field # _____
Sample I.D. MW 330 Date 4-4-85 Time 0945

TOTAL WELL DEPTH 83 FT.S.W.L. 41.28 FT.WATER COLUMN 42 FT.WATER VOLUME 27.4 G.X3= 82 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 17 MINS.ACTUAL PUMPING TIME 22 MINS.

BAILED _____

40 ft screenDuplicate Taken: yes no

I.D. Assigned _____

Field # _____

21.0 °C (Immediate)235 Conductivity
(umhos)7.7 pH19.7 °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ion

21.0 °C (Immediate)240 Conductivity
(umhos)
7.7 pH19.7 °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
O + G
TOC
TOX
Phenolics
Nitrate Ion

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers DB/DJ
Field # _____
Sample I.D. MW 330 Date 4-11-85 Time 1215

TOTAL WELL DEPTH 82 FT.
S.W.L. 41.46 FT.
WATER COLUMN 40.5 FT.
WATER VOLUME 28.5 G.
X3= 79.5 G.
FLOW RATE 3 G.P.M.
PUMPING TIME REQUIRED 27 MINS.
ACTUAL PUMPING TIME 29 MINS.
BAILED _____

40 ft suction

Duplicate Taken: yes no

I.D. Assigned _____

Field # MW 331

____ °C (Immediate)
____ Conductivity
(umhos)
____ pH
____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
~~Gil + Gase~~
~~Fe~~
~~Fe~~
Phenolics
Nitrate Ion

____ °C (Immediate)
____ Conductivity
(umhos)
____ pH
____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers W.C.M. & JRA
Field # _____
Sample I.D. MW-340 Date 4-4-85 Time 1135

TOTAL WELL DEPTH 83 FT.S.W.L. 42.00 FT.WATER COLUMN 41 FT.WATER VOLUME 26.8 G.X3= 80 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 16 MINS.ACTUAL PUMPING TIME 20 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics
Nitrate Ion

21.0 °C (Immediate)220 Conductivity
7.6 (umhos)
pH21.8 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers DB/DJ
Field # 1
Sample I.D. MW 340 Date 4-11-85 Time 1345

TOTAL WELL DEPTH 83 FT.S.W.L. 42.21 FT.WATER COLUMN 40.9 FT.WATER VOLUME 27 G.X3= 3 81 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 27 MINS.ACTUAL PUMPING TIME 27 MINS.

BAILED _____

40 µ screen

Duplicate Taken: yes

☒ no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK

~~Oil + Grease~~

TOC

TOX

~~Phenolics~~~~Nitrate Ion~~

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers WCM/JRA
Field # 1
Sample I.D. MW 350 Date 4-2-95 Time 1430

TOTAL WELL DEPTH 92 FT.S.W.L. 49.28 FT.WATER COLUMN 43 FT.WATER VOLUME 28.1 G.X3= 84 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 17 MINS.ACTUAL PUMPING TIME 22 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

21° °C (Immediate)305 Conductivity
(umhos)8.2 pH22.7 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD 1213
Field # _____
Sample I.D. MW 750 Date 11 April 1985 Time 0810

TOTAL WELL DEPTH 92 FT.S.W.L. 4940 FT.WATER COLUMN 43 FT.WATER VOLUME 29.4 G.X3= 88 G.FLOW RATE 5 G.P.M.PUMPING TIME REQUIRED 17 MINS.ACTUAL PUMPING TIME 21 MINS.

BAILED _____

Samples Taken:

VOA + MEK
~~_____~~
~~_____~~
~~_____~~

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers 189

Field # _____

Sample I.D. mw 360Date 4/2/85Time 0930TOTAL WELL DEPTH 92 FT.S.W.L. 53.39 FT.WATER COLUMN 39 FT.WATER VOLUME 25.5 G.X3= 76 G.FLOW RATE 6 G.P.M.PUMPING TIME REQUIRED 13 MINS.ACTUAL PUMPING TIME 20 MINS.

BAILED _____

30 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

20 °C (Immediate)510 Conductivity
(umhos)7.1 pH20.5 °C (at pH Cond.
Readings)Duplicate Taken: yes ☒ no ☐

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers DB/DJ
Field # _____
Sample I.D. MW 360 Date 4-10-85 Time 1500

TOTAL WELL DEPTH 92 FT.
S.W.L. 53.37 FT.
WATER COLUMN 38.63 FT.
WATER VOLUME 25 G.
X3= 75 G.
FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED 25 MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

30 ft. screen

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)
_____ Conductivity
(umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Samples Taken:

UOA + MEK
Oil + Grease
~~FOC~~
~~TOC~~
Phenolics

_____ °C (Immediate)
_____ Conductivity
(umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB.
Field # _____
Sample I.D. MW 370

Samplers John R. [signature]Date 4/2/85 Time 1100

TOTAL WELL DEPTH 99 FT.
S.W.L. 57.57 FT.
WATER COLUMN 41 FT.
WATER VOLUME 26.8 G.
X3= 80 G.
FLOW RATE 50 G.P.M.
PUMPING TIME REQUIRED 16 MINS.
ACTUAL PUMPING TIME _____ MINS.
BAILED _____

40 ft screen

Duplicate Taken: ☒ yes ☐ no
I.D. Assigned MW 371
Field # _____

21 °C (Immediate)
28.7 Conductivity (umhos)
7.3 pH
20.7 °C (at pH Cond. Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TDC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

21 °C (Immediate)
381 Conductivity (umhos)
7.2 pH
20.7 °C (at pH Cond. Readings)

Samples Taken:

all above

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DJ

Field # _____

Sample I.D. MW 370Date 4-10-85 Time 1345TOTAL WELL DEPTH 99 FT.S.W.L. 57.64 FT.WATER COLUMN 41.4 FT.WATER VOLUME 27 G.X3= 81 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 27 MINS.ACTUAL PUMPING TIME 27 MINS.

BAILED _____

Samples Taken:

VOA + MEKOil + GreaseFOCTOX

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers Bill Morris & JRA

Field # _____

Sample I.D. MW 380Date 4-2-85Time 1250TOTAL WELL DEPTH 95 FT.S.W.L. 62.08 FT.WATER COLUMN 33 FT.WATER VOLUME 21.5 G.X3= 65 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 13 MINS.ACTUAL PUMPING TIME 18 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

20.0° °C (Immediate)458 Conductivity
(umhos)7.4 pH21.5 °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers JB/DJ
Field # _____
Sample I.D. MW380 Date 4-10-85 Time 1110

TOTAL WELL DEPTH 95 FT.S.W.L. 62.32 FT.WATER COLUMN 32.68 FT.WATER VOLUME 22.3 G.X3= 66 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 22 MINS.ACTUAL PUMPING TIME 20 MINS.

BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
FOC
TOX

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers WCM & TRA

Field # _____

Sample I.D. MW 390Date 4-3-85Time 0935TOTAL WELL DEPTH 104 FT.S.W.L. 60.57 FT.WATER COLUMN 43 FT.WATER VOLUME 28.1 G.X3= 84 G.FLOW RATE 50 G.P.M.PUMPING TIME REQUIRED 17 MINS.ACTUAL PUMPING TIME 22 MINS.

BAILED _____

20 ft screen

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Metals (Cd, Cr, Pb, Hg, Ag)
Phenolics
Nitrate Ion
Pest/Herb

19.5 °C (Immediate)240 Conductivity
6.8 (umhos)
pH20.5 °C (at pH Cond
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers DB/DJ
Field # _____
Sample I.D. MW390 Date 4-10-85 Time 1010

TOTAL WELL DEPTH 104 FT.
S.W.L. 61.37 FT.
WATER COLUMN 42.63 FT.
WATER VOLUME 28 G.
X3= 84 G.
FLOW RATE 3 G.P.M.
PUMPING TIME REQUIRED 28 MINS.
ACTUAL PUMPING TIME 22 MINS.
BAILED _____

Samples Taken:

VOA + MEK
Oil + Grease
FOE
FOX

Pump was set about 85' BGS
because well info. was not avail
prior to sampling. This put the
pump at the top of the screen

_____ °C (Immediate)
_____ Conductivity
_____ (umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Duplicate Taken: yes no
I.D. Assigned _____
Field # _____

_____ °C (Immediate)
_____ Conductivity
_____ (umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB. Samplers DT AB
Field # _____
Sample I.D. MW 400 Date 4-2-85 Time 1320

TOTAL WELL DEPTH 100 FT.S.W.L. 55.78 FT.WATER COLUMN 44 FT.WATER VOLUME 29.7 G.X3= 86 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 29 MINS.ACTUAL PUMPING TIME 30 MINS.

BAILED _____

40 ft screen

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb22.5 °C (Immediate)359 Conductivity
(umhos)7.67 pH24.0 °C (at pH Cond
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers DB/DJ

Field # _____

Sample I.D. MW-410Date 4-5-85Time 1010TOTAL WELL DEPTH 97 FT.S.W.L. 50.47 FT.WATER COLUMN 46.5 FT.WATER VOLUME 30 G.X3= 90 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 30 MINS.ACTUAL PUMPING TIME 30 MINS.

BAILED _____

HO ft screen

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb21

°C (Immediate)

550Conductivity
(umhos)6.60

pH

22°C (at pH Cond
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers DT & DB

Field # _____

Sample I.D. mw 420Date 4-2-85 Time 1125TOTAL WELL DEPTH 100 FT.S.W.L. 51.16 FT.WATER COLUMN 49 FT.WATER VOLUME 32 G.X3= 96 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 32 MINS.ACTUAL PUMPING TIME 33 MINS.

BAILED _____

40 ft screen

Duplicate Taken: yes

☒ no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb23.0 °C (Immediate)306 Conductivity
(umhos)7.46 pH21.6 °C (at pH Cond.
Readings)

Samples Taken:

Site Castle AFBSamplers AD/WM

Field # _____

Sample I.D. MW 430Date 10 APRIL 85 Time 10³⁰TOTAL WELL DEPTH 51 FT.S.W.L. 49.76 FT.WATER COLUMN 31.24 FT.WATER VOLUME 20.37 G.X3= 611 G.FLOW RATE 5.0 G.P.M.PUMPING TIME REQUIRED 13 MINS.ACTUAL PUMPING TIME 17 MINS.

BAILED _____

40 ft screen

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK
Oil + Grease
TOC
TOX
Phenolics21.0 °C (Immediate)387 Conductivity
(umhos)7.01 pH23.2 °C (at pH Cond.
Readings)

Samples Taken: NOTES

L 430 - DRYL 431 - DRYL 432 - DRYL 433 - DRY

GROUNDWATER WELL LOG SHEET

Site

Castle AEB

Samplers

DB: DJ

Field #

Sample I.D.

MW 440

Date

4-22-85

Time

1500

TOTAL WELL DEPTH 99 FT.S.W.L. 45.66 FT.WATER COLUMN 53 FT.WATER VOLUME 34.60 G.X3= 104 G.FLOW RATE 3 G.P.M.PUMPING TIME REQUIRED 35 MINS.ACTUAL PUMPING TIME 37 MINS.

BAILED _____

20 ft screen

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

23

°C (Immediate)

391Conductivity
(umhos)7.70

pH

23.5°C (at pH Cond.
Readings)

Duplicate Taken: yes

(no)

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site

Castle AFB

Samplers

DB/DJ

Field #

Sample I.D.

mw 450

Date

4-2-85

Time

0900

TOTAL WELL DEPTH 97 FT.S.W.L. 46.96 FT.WATER COLUMN 50 FT.WATER VOLUME 32.6 G.X3= 98 G.FLOW RATE ~3.0 G.P.M.PUMPING TIME REQUIRED 33 MINS.ACTUAL PUMPING TIME 35 MINS.BAILED -40 ft screen

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

Nitrate Ion

20.6

°C (Immediate)

148Conductivity
(umhos)7.56

pH

20.6°C (at pH Cond.
Readings)Duplicate Taken: yes no

I.D. Assigned

mw-151

Field #

Samples Taken:

all above

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFB.Samplers WCM & JRA

Field # _____

Sample I.D. MW 460Date 4-3-85 Time 1100TOTAL WELL DEPTH 100 FT.S.W.L. 47.02 FT.WATER COLUMN 53 FT.WATER VOLUME 34.6 G.X3= 104 G.FLOW RATE 50 G.P.M.PUMPING TIME REQUIRED 21 MINS.ACTUAL PUMPING TIME 23 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb21.0 °C (Immediate)194 Conductivity
(umhos)7.9 pH21.3 °C (at pH Cond
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD / WM
Field # _____
Sample I.D. MW 460 Date 11 April 1988 Time 1040

TOTAL WELL DEPTH 100 FT.
S.W.L. 47.37 FT.
WATER COLUMN 53 FT.
WATER VOLUME 36.2 G.
X3= 109 G.
FLOW RATE 5 G.P.M.
PUMPING TIME REQUIRED 22 MINS.
ACTUAL PUMPING TIME 23 MINS.
BAILED _____

Samples Taken:

VOA + MEK

~~Substrate~~~~DO~~~~DO~~

_____ °C (Immediate)
_____ Conductivity
(umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

Duplicate Taken: yes no
I.D. Assigned _____
Field # _____

Samples Taken:

_____ °C (Immediate)
_____ Conductivity
(umhos)
_____ pH
_____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site Castle AFBSamplers WCV + JRA

Field # _____

Sample I.D. MW 470Date 4-3-85Time 1245TOTAL WELL DEPTH 100 FT.S.W.L. 45.47 FT.WATER COLUMN 54 FT.WATER VOLUME 353 G.X3= 106 G.FLOW RATE 50 G.P.M.PUMPING TIME REQUIRED 22 MINS.ACTUAL PUMPING TIME 24 MINS.

BAILED _____

40 ft screen

Samples Taken:

VOA + MEKOil + GreaseTOCTOXMetals (Cd, Cr, Pb, Hg, Ag)PhenolicsNitrate IonPest/Herb21.5

°C (Immediate)

220Conductivity
(umhos)7.9

pH

23.4°C (at pH Cond.
Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C (Immediate)

____ Conductivity
(umhos)

____ pH

____ °C (at pH Cond.
Readings)

GROUNDWATER WELL LOG SHEET

Site

Castle AFB

Samplers

DB/DJ

Field #

Sample I.D.

MW 470

Date

4-11-85

Time

1525

TOTAL WELL DEPTH 100 FT.S.W.L. 45.68 FT.WATER COLUMN 54 FT.WATER VOLUME 35 G.
X3= 105 G.FLOW RATE 35 G.P.M.PUMPING TIME REQUIRED 35 MINS.ACTUAL PUMPING TIME 36 MINS.

BAILED _____

40 hr swim

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VON + MEK

~~nitrate~~~~DO~~~~DO~~Phenolics~~nitrate~~

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB

Samplers

DB/DJ

Field # _____

Sample I.D. FB-1

Date

4-4-85

Time

1130

TOTAL WELL DEPTH _____ FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

Bailed 0:36, collected other samples
from pump discharge line after purge with
demineralized water.

Samples Taken:

EPA 601

EPA 602

Oil & Grease

TOC

TOX

Phenolics

Metals

Nitrate

Pest/Herb

_____ °C (Immediate)

27Conductivity
(umhos)9.75

pH

_____ °C (at pH Cond.
Readings)22.5

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

Conductivity
(umhos)

pH

_____ °C (at pH Cond.
Readings)

Site Castle AFB

Samplers Joseph Althaus

Field # _____

Sample I.D. FB-2

Date 4/3/65 Time 0800

TOTAL WELL DEPTH _____ FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE _____ G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME _____ MINS.

BAILED _____

Bailed O&G, collected other samples from pump discharge line after purge with demineralized water

Samples Taken:

EPA 601 } (VOA inc. M&K)
EPA 602 }

Oil & Grease

TOC

TOX

Phenolics

Metals

Nitrate

Pest/Herb

19 °C (Immediate)

30 Conductivity (umhos)

8.9 pH

19.5 °C (at pH Cond. Readings)

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C (Immediate)

_____ Conductivity (umhos)

_____ pH

_____ °C (at pH Cond. Readings)

Samples Taken:

GROUNDWATER WELL LOG SHEET

Site Castle AFB Samplers AD/WM
Field # _____
Sample I.D. FB-2 Date 11 April 1985 Time 0845

TOTAL WELL DEPTH _____ FT.

S.W.L. _____ FT.

WATER COLUMN _____ FT.

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED _____ MINS.

ACTUAL PUMPING TIME 20 MINS.(purge time)
BAILED _____

Samples Taken:

VOA + MEK

~~OT + MEK~~~~MEK~~~~MEK~~

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

SURFACE WATER LOG SHEET

Site Castle AFB Samplers AD
 Field # _____
 Sample I.D. SG-1 Date 4-8-85 Time 1220

Water Level Dry at staff gauge

____ °C (Immediate)
31.6 Conductivity
8.6 (umhos)
 pH
26.7 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK } Volatile ME
 Oil + Grease
 TOC
 TOX
 Metals
 Phenolics
 Nitrates
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle Samplers AD
 Field # _____
 Sample I.D. SG-2 Date 4-8-85 Time 1300

Water Level Dry at staff gauge located
200 feet upstream to sample
standing water

21 °C (Immediate)
144 Conductivity
9.81 (umhos)
 pH
23.6 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrates
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

____ °C
 _____ Conductivity
 (umhos)
 _____ pH

SURFACE WATER LOG SHEET

Site Castle AER Samplers AD
 Field # _____
 Sample I.D. SG-3 Date 4-8-85 Time 1335

Water Level Dry at gauge

____ °C (Immediate)
422
 _____ Conductivity
10.05 (umhos)
 _____ pH
23.7 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil & Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrates
 Pest/Herb

Duplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers DS
 Field # _____
 Sample I.D. SG-4 Date 4-8-55 Time 1350

Water Level 3.58

_____ °C (Immediate)
105 Conductivity
8.40 (umhos)
 pH
27.1 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols
 Nitrate
 Pest/Herbs

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers JB/DJ
 Field # _____
 Sample I.D. SG-5 Date 4-8-85 Time 1430

Water Level 8.25

____ °C (Immediate)
143
 _____ Conductivity
8.47 (umhos)
 _____ pH
28.0 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols (take 2 bottles for Weston)
 Nitrate
 Pest/Herb

Duplicate Taken: ☒ yes ☐ no
 I.D. Assigned SG-5A
 Field # _____

26.4 °C
114 Conductivity
 (umhos)
8.39 pH

Samples Taken:

all above

SURFACE WATER LOG SHEET

Site Castle AFB Samplers 2 Bore - /AD
 Field # _____
 Sample I.D. SG-6 Date 4-8-85 Time 1525

Water Level 0.48

____ °C (Immediate)
203
 Conductivity
23.0 (umhos)
 pH
23.0 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX
 Metals
 Phenols (take 2 bottles for Western)
 Nitrate
 Pest/Herb

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

____ °C
 Conductivity
 (umhos)
 pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers LT
Field # _____
Sample I.D. SG-7 Date 4/1/15 Time 1:45

Water Level 7.70

29.3 °C (Immediate)
29.07 Conductivity
(umhos)
26.1 pH
°C (at pH Cond.
Readings)

Samples Taken:

EPA 601
EPA 602 + MEK
Oil + Grease
TUC
TOX

Duplicate Taken: yes no

I.D. Assigned SG-7A

Field # _____

26.7 °C
284 Conductivity
(umhos)
9.07 pH

Samples Taken:

EPA 601
EPA 602 + MEK
O&G
TUC
TOX

SURFACE WATER LOG SHEET

Site Castle AFB Samplers DT
 Field # _____
 Sample I.D. SG-8 Date 4-8-85 Time 11015

Water Level -1.90

_____ °C (Immediate)
26.9 Conductivity
8.96 (umhos)
 pH
27.9 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TUC
 TOX

Duplicate Taken: yes

no

I.D. Assigned _____

Field # _____

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

Samples Taken:

SURFACE WATER LOG SHEET

Site Castle AFB Samplers AD DB/AD
 Field # _____
 Sample I.D. SG-9 Date 4-8-85 Time 1630

Water Level 3.50

_____ °C (Immediate)
310
 Conductivity
8.87 (umhos)
 pH
27.5 °C (at pH Cond.
 Readings)

Samples Taken:

EPA 601
 EPA 602 + MEK
 Oil + Grease
 TOC
 TOX

Duplicate Taken: yes ☒ no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C
 _____ Conductivity
 (umhos)
 _____ pH

SPECIAL QA SAMPLES

Site Castle AFB
Field # _____
Sample I.D. MW210

Samplers DB/AT

Date 4-5-85 Time 0850

TOTAL WELL DEPTH 92 FT.

S.W.L. 35.18 FT.

WATER COLUMN 57 FT.

WATER VOLUME 37 G.

X3= 111 G.

FLOW RATE 3 G.P.M.

PUMPING TIME REQUIRED 37 MINS.

ACTUAL PUMPING TIME 37 MINS.

BAILED _____

40 ft screen

Duplicate Taken: yes no

I.D. Assigned W-1, W-2, W-3

Field # _____

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Samples Taken:

VOA + MEK

Oil + Grease

TOC

TOX

Phenolics

815

37
111

17 °C (Immediate)

10 Conductivity
(umhos)

6.88 pH

91.5 °C (at pH Cond.
Readings)

Samples Taken:

3x VOA + MEK (EPA 601 + 602)

Note: Came back at 1230 and
took 3 duplicate VOA samples
using 3 different sampling
techniques (see field book)

SURFACE WATER LOG SHEET

Site Castle AFB

Samplers MLN

Field # _____

Sample I.D. SG 11

Date 4-8-85 Time 1615

Water Level _____

Samples Taken: TOX

_____ °C (Immediate)

_____ Conductivity
(umhos)

_____ pH

_____ °C (at pH Cond.
Readings)

Sample taken from Canonic
Lab "Organipure" water
purifying system.

Duplicate Taken: yes no

I.D. Assigned _____

Field # _____

Samples Taken:

_____ °C

_____ Conductivity
(umhos)

_____ pH

WESTON

Castle AFB

WELL I.D. Pump Down Test

DATE 1-21-85

TIME 11:45 - 11:15

OPERATING _____

STATIC _____

WATER LEVEL _____ FT.

TOTAL WELL DEPTH _____ FT.

PUMPING RATE _____ G.P.M.

S.W.L. _____ FT.

TOTAL GALLONS PUMPED _____ G.

WATER COLUMN _____ FT.

5 gallons of lab standard
recipients was circulated through
the sampling line and pump
for 10 mins (50 gals) The pump
was then rinsed with D.I. H₂O
and placed in a 55 gal barrel of
D.I. H₂O. This was pumped through
the system for ten mins.
Samples were taken at 3 mins
6 mins and 10 mins for Ten
analyses

WATER VOLUME _____ G.

X3= _____ G.

FLOW RATE 5 G.P.M.

PUMPING TIME REQUIRED 2 MINS.

ACTUAL PUMPING TIME 20 MINS.

_____ °C

_____ CONDUCTIVITY (µmhos)

_____ pH

NOTES: X = NOT APPLICABLE

SAMPLER 1/2" NPT

APPENDIX I

SAMPLE CHAIN-OF-CUSTODY RECORDS

END

DTIC

7-86